A.N.A.R.T.S. News Bulletin 1365 18th Sep 2005.

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Col's Column

Early Electrical Communication.

Early Electrical Communications, United States.

Uses of the Telegraph in the United States.

It has been mentioned in earlier parts of this article, that in England, the growth of the telegraph was associated with the development of the railway system. In the United States however, the railways were established approximately two decades before that of the telegraph. This enabled Law breakers to use the railways safe in the knowledge that messages would be sent ahead to their destination.

The general public in the U.S. thought of the telegraph as a means to convey news to the Newspaper offices, and enjoyed more up to date daily news.

Another use for the early telegraph was the accurate determination of Longitude. To find the longitude of a location, a telegraph line was set up between two locations where longitude was required. The time of Star Transits was then telegraphed to each location, which enabled an accurate longitude to be determined.

A further use was that of Meteorological reporting, enabling better weather forecasting.

The social effect of the telegraph in the U.S. was enormous. Wires connected even the most remote areas of the country. for the first time Washington became the capital of the United States in actual fact as well as in theory. States that had previously been loosely united became firmly part of the U.S. Stock markets in the country became unified and the U.S. army became subject to a central command.

The telegraph made the United States a unified country and put it on the road to becoming a super power.

More next week
73's Col VK2CTD.

Just one week ago, on Sept. 7th, a huge sunspot rounded the sun's eastern limb. As soon as it appeared, it exploded, producing one of the brightest x-ray solar flares of the Space Age. In the days that followed, the growing spot exploded eight more times. Each powerful flare caused a shortwave radio blackout on Earth and pumped new energy into a radiation storm around our planet. The blasts hurled magnetic clouds toward Earth, and when they hit, on Sep 10th and 11th ruby-red auroras were seen as far south as Arizona.

So this is solar minimum?

Actually, solar minimum, the lowest point of the sun's 11-year activity cycle, isn't due until 2006, but forecasters expected 2005, the eve of solar minimum, to be a quiet year on the sun. It has not been quiet. 2005 began with an X-flare on New Year's Day - a sign of things to come. Since then we've experienced 4 severe geomagnetic storms and 14 more X-flares.

That's a lot of activity, says solar physicist David Hathaway of the National Space Science and Technology Center in Huntsville, Alabama.

Compare 2005 to the most recent Solar Max: In the year 2000, he recalls There were 3 severe geomagnetic storms and 17 X-flares. 2005 registers about the same in both categories.

Solar minimum is looking strangely like Solar Max.

from a NASA release

IPS Weekly Solar and Geophysical Report for 9/15th Sep

SUMMARY

Date	09	10	11	12	13	14	15	
10cm flux	99	100	110	118	114	117	119	
AFr index	12	15	53	32	26	13	25	est
Aaus index	16	22	69	49	27	14	29	est
T index	24	26	25	6	17	18	9	

Solar flare activity was very high on 9th and high for the rest of the period.

The following flares were reported:

9th one X6 one X5 one X3 one X1 and one M6
10th one X2 one X1 one M4 two M3 and three M1
11th one M8 two M3 and one M1
12th one M6 one M4 and two M1
13th two X1 and one M1
14th one X1 one M4 and one M1
15th one X1and two M1

Geomagnetic activity observed for the Australian Region was quiet to minor storm on 9/10th unsettled to severe storm on 11th unsettled to major storm on 12th and 13th quiet to active on 14th and quiet to major storm on 15th.

Southern Australian Ionospheric F2 critical frequencies were near predicted on 9th mostly near predicted to 20 percent depressed on 10th near predicted to 15 percent depressed on 11th depressed 20 to 25 percent depressed on 12th and 15th depressed 35 to 40 percent

depressed on 13th and depressed 15 to 20 percent on 14th.

Forecast for 16th to 22nd September

Solar activity should see moderate high activity early in the week.

Geomagnetic activity should be at active levels 20/21st Sep and quiet
to unsettled on other days.

Frequencies should be briefly depressed after local dawn 20/21st Sep
and near predicted monthly values on other days.

courtesy of the IPS Radio and Space Services

summary by Pat VK2JPA ANARTS Broadcast Officer

VK2SG RTTY DX NOTES for week ending 15 Sep

Our information this week came from AA5AU I5FLN DJ3IW UT5RP GB7DXG
DL1ZBO and the OH2AQ DX Summit. Thank you all.

Friday 09
0322-7035 HI3TEJ
0849-14085 TM8CDX
1235-14088 T6X
1240-18104 SV1GYG
1245-14082 CU6NS
1249-14084 FR1HZ
1500-18103 7X0RY
1526-18103 CT1XK
1526-18101 SV2CWV
1537-14082 A6/ON5NT
1601-14085 4L1DA
1825-21081 TI0SP
2203-7038 7X0RY

Saturday 10
0538-21085 8J2AI
1151-21082 A6/ON5NT
1406-14085 UN7EG
1409-14082 TI0SP
1447-18102 K5PAX
1548-18100 A6/ON5NT
1628-14082 CU6NS
1722-14085 XU7ABN
1824-14084 C31BO
1900-7036 7X0RY
1943-7036 CT1XK
1949-7036 UA6CE
2028-14080 EI8IU
2038-7036 7X0RY
2135-14076 PS113QB
2202-7035 PT7AZ
2317-14084 HC2NGF
2317-3582 7X0RY
2335-14082 FJ5DX
2355-14084 HC2NGF

Sunday 11

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0014-14087 CE3CDV
0732-7035  CE3CDV
0955-14086 IS0YTA
1001-14080 DA0RP
1051-7038  ED1SDC
1249-14085 T77NC
1256-10138 SN6RRZ
1403-14088 HZ1NH
1541-10138 SN6RRZ
1656-14085 TI0SP
1748-10139 SN6RRZ
1755-14080 EA9IB
2040-14081 FJ5DX
2104-7035  7X0RY
2119-14085 FM5AA

Monday 12
1125-14080 G4FRK
1420-18101 TI0SP
1533-14086 T77NC
1541-14084 TI0SP
1616-14086 R625KB
1659-14085 XE1YJS
1700-18105 VQ9LA
1700-14082 UN7PYL
1700-14083 XU7ABN
1717-14083 VR2XLN
1736-10146 R625KB
1741-14083 G1HHD
1821-14082 R625KB
1833-14086 4O310SKY
1918-14083 OX3DB
1921-14084 3A2MW
2249-14087 LU2FDN

Tuesday 13
1054-14082 CU6NS
1333-14079 R625KB
1634-14086 4K5D
1652-14084 EK7DX
1800-14083 UN7QX
1818-14084 XU7ABN
2111-21082 TI0SP
2258-14086 CU2JT
2307-14085 PY0S/PS7JN

Wednesday 14
0038-14084 HC2NGF
1633-14085 R625KB
1637-14085 XU7ABN
1815-10135 RA4CC
1819-10135 SP2IW
1822-10135 OZ6TL
1829-10135 RW4NH
1836-10135 HB9ODK
1840-10140 EW1CQ
1857-14086 J48HW
1948-10141 SQ2CTG
1952-14079 R625KB
2104-14080 VP8WA
2105-14087 PY0S/PS7JN
2206-14083 XE1YJS
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Thursday 15
0210-14081 KH6ZM
0550-14083 ES3RFL
1217-14084 HK4QHD
1707-14085 SV1IYL
1708-14087 IM0MBP
1754-10141 RA4CC
1815-10140 I5RFD
1853-14084 XU7ABN
1908-14082 ZD7JC

Notes of interest:
K7K Kure Atoll 24 Sep - 06 Oct by various ops. To include RTTY.
QSL via N4XP

The CQWW RTTY Contest takes place over the weekend of 24/25 Sep.
See the NG3K site for announced operations in this contest
www.ng3k.com/Misc/adxo.html

The VK2SG RTTY DX NOTES are distributed every week via the
Winlink network, and are also available on the Internet at
URL http://mailman.qth.net/mailman/listinfo/vk2sg-rtty
and the digital-dx reflector.

To subscribe to the digital-dx reflector, send an e-mail
message to majordomo at mla.nifty.ne.jp as follows:
Subject:(blank) Message Body: subscribe digital-dx

For next week's bulletin send your bandpass and notes of
interest to Luciano I5FLN email luciano.fusari at alice.it

73 es Good RTTY DXing Phil Cooper GU0SUP

The Ohio/Penn DX Bulletin No. 726 - excerpts

A6, UAE
Members of the Slovenia Contest Club (SCC) will be active as A61AJ
during the CQ Worldwide DX RTTY Contest as a Multi-Multi entry.

FP, ST. PIERRE AND MIQUELON
Operators Stan/AC8W Ted/K8AQM Henry/K8DD Greg/K8GL Ian/K8MM and
Kurt/W8IQ will be here between Nov 22-28. They plan to be active as
FP/K8DD during the CQ WW DX CW Contest as a Multi-Multi or Multi-2
entry depending on the conditions and antennas. Before and after the
contest operators will be using their own callsigns. They will sign
FP/homecall and are planning to be active on PSK-31 RTTY and the WARC
bands before the contest. The possibility of adding one or two more
operators exists. QSL FP/AC8W FP/K8DD and FP/K8GL direct only via
K8NA. QSL FP/K8MM direct only to CBA. QSL FP/K8AQM and FP/W8IQ direct
(CBA) or by the bureau. Bureau cards (to home callsigns) will
eventually be answered.

IOTA NEWS
EU-004. Kurt HB9XCL will be active as EA6/HB9XCL/p from the Island of
Formentera (DIE E-024 and MIA MB-002) Balearic Islands Sep 18-23.
Activity will be on all HF bands, with an emphasis on SSB and the
digital modes. QSL via his home callsign+ADs- bureau is preferred.

EU-174. Laci HA0HW, will go to Thassos Island and be active as J48HW
and SV8/HA0HW/p now thru Sep 18. Activity will be on HF bands, 80-10M

the WARC bands included on CW SSB BPSK31 and RTTY. His rig is FT-840 using monoband dipoles and GPS on fishing poles. QSL cards are OK via the HA Bureau or direct.

SA-NEW. A group of several operators from Argentina led by Daniel LU3CT will be active from Isla Escondida in the North of Chubut Province. Callsign already issued is L95WI. They will leave the 20th of Oct and hope to be ON THE AIR starting the 22nd operating 24 hours a day with 4 stations until the 24th then they will return back home by the 26th. Operations will be 80-10M CW SSB and the Digimodes.

J43, GREECE
Geza HA4XG will be active as J43XG Oct 1-15 from Rio (near Patras - KM08vh). He will use his FT-897D on the HF bands (40-10M including the WARC bands) with a DunaX GPS and dipoles and on 2M with an 8 element Yagi antenna. He does like CW but will try to work on SSB and FSK441 also. Geza is on his holiday with his wife so main time of operation will be during his early mornings and evenings. QSL via the HA QSL Bureau or direct.

KH9, WAKE ISLAND
Dan W0CN informs OPDX that he is pleased to announce his KH9 DXpedition which will take place (firm) Sep 18-30. Some equipment has already been shipped and has arrived on Wake Island. Should any plans change, information will be posted on http://www.qrz.com/w0cn
The KH9/W0CN DXpedition to Wake Island will commemorate the 60th anniversary of the end of World War II. Activity will be on 160-10M CW/SSB. The QSL Manager will be K9JS by the bureau or direct to Jonathan L. Schulz, 813 West Washington, Harvard, IL 60033. Logs will be submitted to the Logbook of the World.

MU, GUERNSEY
Members of the Purple Mug Team DX Group (PMTDXG) will activate the Island of Alderney (EU-114) the most northernly island of the Channel Islands group Oct 12/19. A group of four amateur radio operators from around the UK will be operational on all HF bands 6M VHF APRS, VHF/UHF SSB and hopefully some satellite activity. They hope the first calls could be made during the evening of the 12th most probably on 80/40M. Worked All Britain (WAB)and Lighthouse activity may take place depending on the availability of portable power supplies/generator. Further information is available from: dave at g1ocn.com

OH0, ALAND ISLANDS
Hadi DJ2PJ will be OH-JWH once again from Eckero Island in the Aland Archipelago Sep 25/Oct 7. His activity will be on all HF bands 160-10M (no 6M this time) including the WARC bands on CW SSB RTTY PSK MFSK SSTV and Hell. A special focus will be on 160-30M. QSL via DJ2PJ direct or by the Bureau, or by E-mail request (oh-jwh-dj2pj.de). More info is avalaible at http://www.dj2pj.de
LAST MINUTE UPDATE: On his upcoming visit to the Alands OH-JWH will be using the callsign OH-P.

PY0S, ST. PETER AND ST. PAUL ROCKS
Joca PS7JN is active as PY0S/PS7JN until Sep 22. Activity will be on all HF bands CW/SSB and also various digital modes. Over the past week he was heard mainly on 20M SSB/RTTY/PSK. There was one QSN on 40 meters. QSL to his home callsign.

The Society can be contacted in the following ways
To Pat VK2JPA via patleeper at optusnet.com.au or

Col VK2CTD via ctdavies at bigpond.net.au or
you can drop a line to P.O. Box 93 Toongabbie, NSW 2146.
73's for this week from Pat VK2JPA Broadcast Officer
NNNN